

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

August 27, 1980

Increase in Technical Assistance to EPA-Region VII by PEDCO Under Contract 68-02-3173

Wolfgang Brandner, Task Officer  
Region VII Toxic Substances Coordinator

Deanie Gagnon, Program Manager  
IERL Special Studies Staff (MD-63)

Attached is a work assignment to PEDCO Environmental Services requiring approximately 496 manhours or \$15,000 of effort under existing Contract 68-02-3173. Please initiate the proper steps to obligate these resources for the "Investigation of Possible Environmental Carcinogens in Cherokee County, Kansas, and Jasper County, Missouri" project.

Your immediate attention to this project will be greatly appreciated. I would like PEDCO personnel to begin their investigation as soon as possible.

Attachment

Site:	<u>W. Brandner</u>
ID #:	<u>150-112-112</u>
Break:	<u>20</u>
Other:	<u>8-27-80</u>

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SUPERFUND RECORDS

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CONCURRENCES							
SYMBOL	TOPE	TOPE	ARHM				
SURNAME	Brandner	Alderman	Wagoner				
DATE	WB	8/27/80	8/29/80				

EPA Form 1320-1 (12-70) 08-28-80

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WORK ASSIGNMENTI. Title

Technical Assistance to Region VII, EPA  
 "Investigation of Possible Environmental Carcinogens in Cherokee  
 County, Kansas, and Jasper County, Missouri"

II. Requester/Task Officer

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 Toxics Substances Coordinator  
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Deanie Gagnon  
 Program Manager  
 EPA, ERC/IERL (MD-63)  
 Research Triangle Park,  
 North Carolina 27711  
 Contract No. 68-02-3173

III. Level of Effort

Manhours: 496

IV. Background

A descriptive epidemiologic study performed by the University of Kansas Medical Center under contract to EPA - Region VII has found an excess lung cancer mortality rate in Cherokee County, Kansas, and Jasper County, Missouri. It is believed that the causative carcinogenic agent is now present in the general environment of these two counties while previously it was confined to the workplace, the mines. An analytical study must now be initiated to determine the cause and source of this excess lung cancer rate. This work assignment is to serve as a pilot investigation which will assist Region VII in determining the direction needed for greater in-depth evaluations.

V. Scope of Work

The contractor shall:

1. Identify, locate on maps and completely characterize the mines and rock quarries existing in Cherokee County, Kansas, and Jasper County, Missouri, during the period of 1930 to 1980. Determine not only major ore excavated from each mine or quarry but also the contaminant minerals mixed with the ore. Of particular interest is the presence of cadmium, arsenic and any of the types of asbestos (both serpentines-chrysotile, as well as the amphiboles-crocidolite,

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amosite, anthophyllite, tremolite and actinolite). The amphiboles have frequently been found in coal mines. Investigate and report presence of radioactivity or radon gas in these mines, if appropriate.

2. Provide aerial photography of the entire two counties, with blow-ups of dirt or gravel roads, strip mines, quarries and mine tailings particularly in and around Columbus, Galena and Baxter Springs, Kansas. Aerial photography should include infrared photography and multi-spectral photography but not limited to, if these are useful in identifying sources of cadmium, arsenic, asbestos and/or radioactive desposits. Geologic, topographic and highway maps should be prepared as overlays on the aerial photography so that points of interest can be easily identified.
3. Analyse and interpret the infrared and multi-spectral photography data collected in #2 above.
4. Prepare 15 copies of a briefing document reporting of the findings in #1 and #2 above. Include narrative and selected photographs, maps, graphs, overlays, etc..

#### VI. Reporting Requirements

The contractor shall:

1. Prepare a Work Plan in accordance with the IERL/RIP Projects Management System specifications (incorporated herein by reference). Within five (5) days following the effective date of this assignment, three (3) copies of the Work Plan shall be submitted to the Project Officer for approval.
2. Submit six (6) copies of the draft investigative report by February 1, 1981.
3. Submit fifteen (15) copies of the final investigative report by April 1, 1981.
4. All camera-ready finished art work, photographs, maps and text used in this project shall become the property of EPA and will be submitted along with the final investigative report on April 1, 1980.